

CLAIMS

What is claimed is:

- 1 1. A spring strut unit comprising:
2 a cylinder;
3 a chamber formed around said cylinder, the chamber being at least
4 partially filled with an initially formable material;
5 a spring plate having a sleeve section fitted around said cylinder and
6 against said initially formable material so that said initially formable material, in a
7 solidified state, transmits supporting forces along a path of force transmission from the
8 cylinder to the spring plate; and
9 means for preventing rotation of the spring plate with respect to the
10 cylinder in the path of force transmission.
- 1 2. A spring strut unit as in claim 1 further comprising a support ring
2 permanently connected to said cylinder, said support ring forming said chamber.
- 1 3. A spring strut unit as in claim 2 wherein said support ring comprises
2 a bottom fixed to said cylinder and a sleeve extending from said bottom around said
3 cylinder, at least part of said sleeve section being received in said sleeve.
- 1 4. A spring strut unit as in claim 2 wherein said support ring comprises
2 a connecting opening for receiving said initially formable material.

1 5. A spring strut unit as in claim 2 wherein said sleeve section
2 comprises a circumferentially limited anti-rotation profile which receives said initially
3 formable material.

1 6. A spring strut unit as in claim 2 wherein said support ring comprises
2 a circumferentially limited engagement profile which receives said initially formable
3 material.

1 7. A spring strut unit as in claim 6 wherein said engagement profile
2 comprises at least one pocket.

1 8. A spring strut unit as in claim 7 wherein said support ring has an
2 edge, said at least one pocket extending only to a point below said edge.

1 9. A spring strut unit as in claim 5 wherein said sleeve section has an
2 inside wall, said anti-rotation profile being provided in said inside wall.

1 10. A spring strut unit as in as in claim 6 wherein said support ring
2 comprises a bottom fixed to said cylinder and a sleeve extending from said bottom
3 around said cylinder, at least part of said sleeve section being received in said sleeve,
4 said engagement profile being provided in the bottom of the support ring.

1 11. A spring strut unit as in claim 5 wherein said anti-rotation profile
2 comprises at least one opening in the sleeve section of the spring plate.

1 12. A spring strut unit as in claim 5 wherein said support ring comprises
2 a circumferentially limited engagement profile which receives said initially formable
3 material, said unit further comprising an anti-rotation sleeve which engages in the anti-
4 rotation profile of the spring plate and in the engagement profile of the support ring.

1 13. A spring strut unit as in claim 12 wherein said sleeve section has an
2 end surface, said support ring comprises a connecting opening for receiving said
3 initially formable material, and said anti-rotation sleeve has a flow connection between
4 the end surface of the sleeve section and the connecting opening in the support ring.

1 14. A spring strut unit as in claim 12 wherein said support ring
2 comprises a circumferentially limited engagement profile which receives said initially
3 formable material, said anti-rotation sleeve being supported in a permanent axial
4 position inside the engagement profile of the support ring.

1 15. A spring strut unit as in claim 5 wherein said support ring comprises
2 a circumferentially limited engagement profile which receives said initially formable
3 material, said engagement profile being received in said anti-rotation profile.

1 16. A spring strut unit as in claim 15 wherein the support ring has at
2 least one radial projection which engages in the anti-rotation profile of the spring plate.

1 17. A spring strut unit as in claim 16 wherein the radial projection is
2 located outside the chamber.